

Notice of Allowability

Application No.

10/675,799

Applicant(s)

JARABEK ET AL.

Examiner

Wutchung Chu

Art Unit

2619

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/31/2007.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

The prior art of record fail to teach a managing data in a subtended switch, comprising:

Regarding claim 1,

- receiving a portion of an input data stream having header data and payload data, the payload data occurring at a first offset relative to the header data;
- generating a delayed version of the portion of the input data stream; and
- generating a portion of a retimed data stream by selecting between the portion of the input data stream and the delayed version of the portion of the input data stream, the retimed data stream including the header data and the payload data, the payload data within the refined data stream occurring at a second offset relative to the header data.

Regarding claim 6,

- receiving a portion of an input data stream having header data and payload data, the payload data occurring at a first offset relative to the header data;
- generating a delayed version of the portion of the input data stream; and
- generating a portion of a retimed data stream by selecting between the portion of the input data stream and the delayed version of the portion of the input data stream, the retimed data stream including the header data and the payload data, the payload data within the refined data stream occurring at a second offset relative to the header data.

- wherein the selecting comprises switching between the portion of the input data stream and the delayed version of the portion of the input data stream, the switching occurring at boundaries between the header data and the payload data in the portion of the input data stream.

Regarding claim 12,

- a high-order switch;
- a low-order switch subtended from the high-order switch; and
- a variable delay element between the high-order switch and the low-order switch, configured to
- receive a portion of an input data stream having header data and payload data, the payload data occurring at a first offset relative to the header data;
- generate a delayed version of the portion of the input data stream; and
- generate a portion of a retimed data stream by selecting between the portion of the input data stream and the delayed version of the portion of the input data stream, the retimed data stream including the header data and the payload data, the payload data within the refined data stream occurring at a second offset relative to the header data.

Regarding claim 15,

A computer program product tangibly embodied on a computer readable medium, for provisioning cross-connects in network switching environment comprising instructions for causing a processor to:

- receive a portion of the an input data stream including having header data and the payload data, the payload data occurring at a first offset relative to the header data;
- generate a delayed version of the portion of the input data stream; and
- generate a portion of a retimed data stream by selecting between the portion of the input data stream and the delayed version of the portion of the input data stream, the retimed data stream including the header data and the payload data, the payload data within the refined data stream occurring at a second offset relative to the header data.

Martin (US7016344) discloses a time slot interchanging of time slots from multiple SONET signals without first passing the signals through pointer processors to synchronize them to a common clock. Martin teaches alignment buffer which may add appropriate amounts of delay to the bytes that it provides to the TSI, thereby achieving column alignment with the bytes. However, Martin fails to disclose the payload data within the refined data stream occurring at a second offset relative to the header data.

Carson et al.(US7013348) disclose switch subtending in a synchronous transmission system. Carson et al. teach a VT/TU aligner between the high order switch and the subtended low order switch. However, Carson et al. fails to disclose generate a portion of a retimed data stream by selecting between the portion of the input data stream and the delayed version of the portion of the input data stream, the retimed data stream

including the header data and the payload data, the payload data within the refined data stream occurring at a second offset relative to the header data.

Therefore, claims 1-18 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wutchung Chu whose telephone number is 571 270 1411. The examiner can normally be reached on Monday - Friday 1000 - 1500EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan D. Orgad can be reached on 571 272 7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WC/
Wutchung Chu

EDAN . ORGAD
SUPERVISORY PATENT EXAMINER

